TA-VE150

SERVICE MANUAL

AEP Model
UK Model

This amplifier has the Dolby Surround system.
Manufactured under license from Dolby Laboratories Licensing Corporation.
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SPECIFICATIONS

Amplifier section

Power output

Stereo mode	(DIN 1 kHz, 8 ohms) 25 W + 25 W
Surround mode	(DIN 1 kHz, 8 ohms) Front: 25 W/ch Centre: 25 W Rear: 25 W/ch
5.1 CH INPUT/DVD mode	(DIN 1 kHz, 8 ohms) Front: 25 W/ch Centre: 25 W Rear: 25 W/ch
Frequency response	TV, VIDEO, DVD-2CH, 5.1 CH INPUT/DVD: 20 Hz-50 kHz ± 1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
TV, VIDEO, DVD-2CH, 5.1 CH INPUT/DVD	200 mV	50 kilohms	82 dB* (A, 150 mV)

*'78 IHF

Outputs	VIDEO (AUDIO OUT): Voltage 200 mV, Inpedance 10 kilohms WOOFER/AUDIO OUT: Voltage: 2 V Impedance: 1 kilohms
Muting	Full mute
BASS BOOST	+9 dB at 70 Hz

General

Power requirements	230 V AC, 50/60 Hz
Power consumption	115 W
Dimensions	430 × 274 × 64.5 mm
Mass (Approx.)	5.4 kg
Supplied accessories	Remote controller (remote) (1) Size AA (R6) batteries (2) Scart adaptor (1)

Design and specifications are subject to change without notice.

Specifications indicated are measured at 230 VAC, 50 HZ.

INTEGRATED AV AMPLIFIER

MICROFILM

SONY®

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

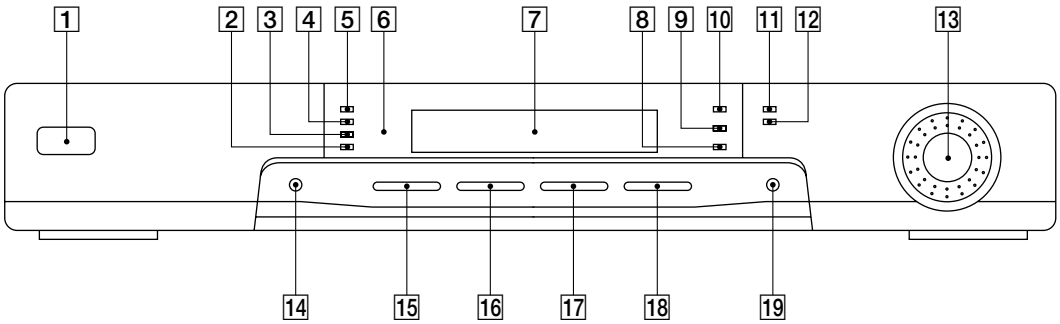
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY A ⚠ MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

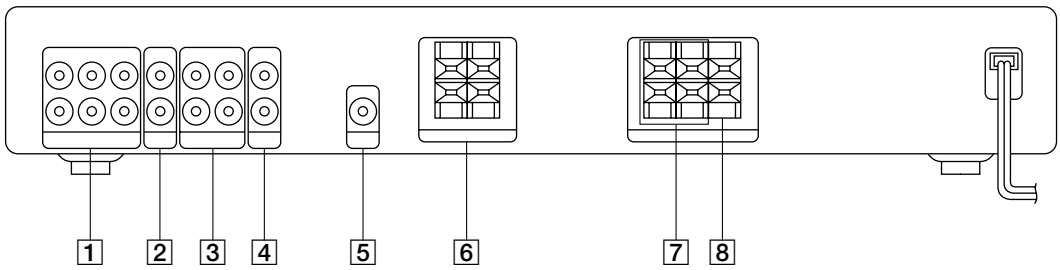
Location of controls

— Front view —



1 I /⏻ button
2 3 STEREO indicator
3 NORMAL indicator
4 WIDE indicator
5 PHANTOM indicator
6 Remote sensor
7 Display window
8 SIMULATED indicator
9 C. STUDIO indicator
10 PRO LOGIC indicator
11 BASS BOOST indicator
12 MUTING indicator
13 MASTER VOLUME dial
14 CENTER MODE button
15 TV button
16 VIDEO button
17 DVD, 2 CH button
18 5.1 CH INPUT, DVD button
19 SURROUND MODE button

— Rear view —

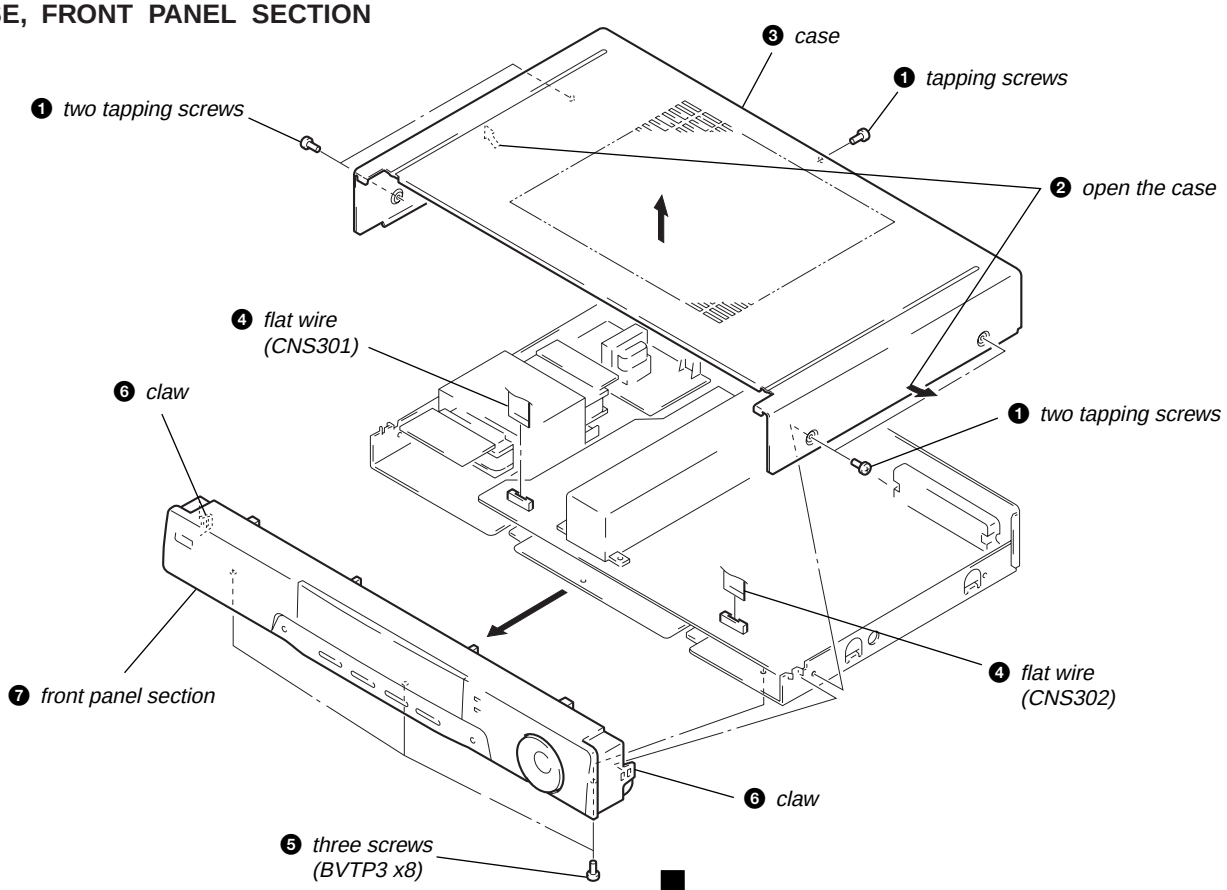


1 5.1 CH INPUT/DVD jacks
2 DVD 2 CH jacks
3 VIDEO jacks
4 TV jacks
5 WOOFER jack
6 FRONT SPEAKERS terminals
7 REAR SPEAKERS terminals
8 CENTER SPEAKER terminals

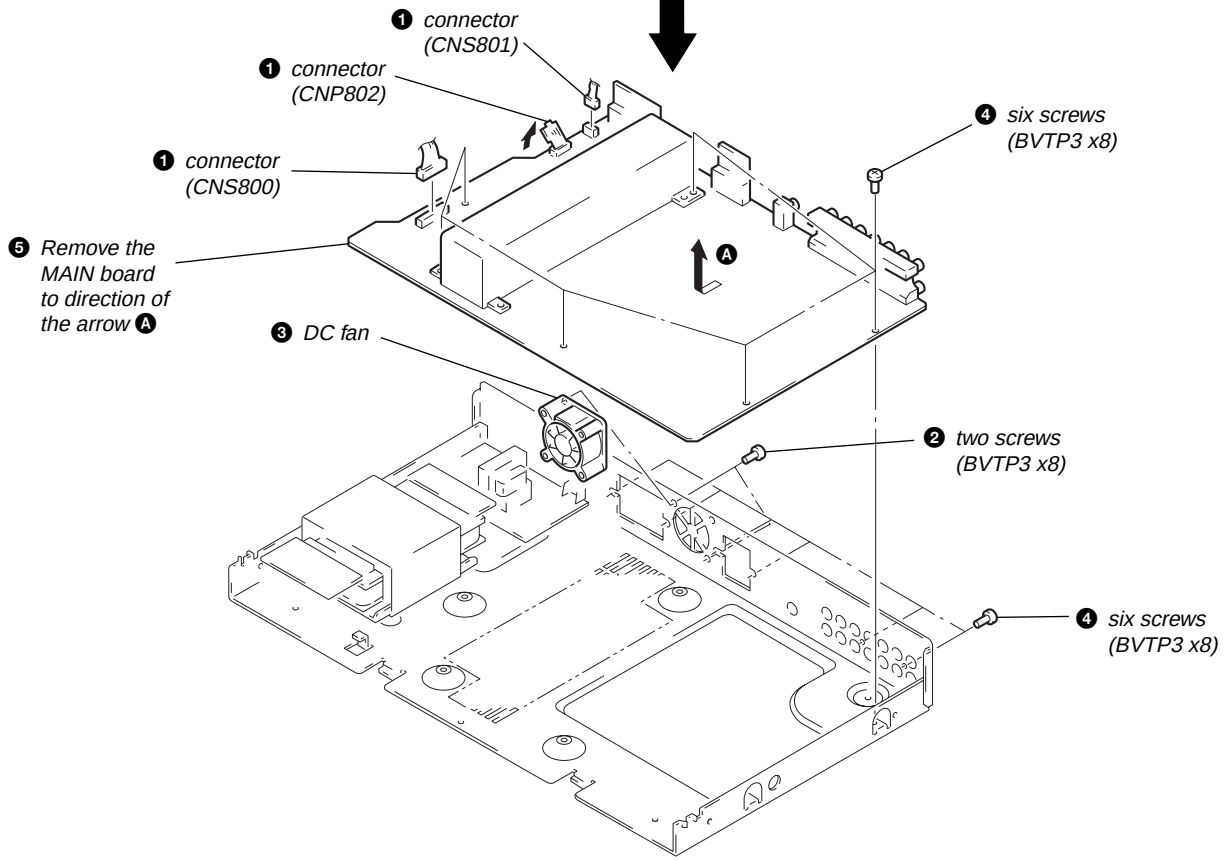
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

CASE, FRONT PANEL SECTION



MAIN BOARD


❶ connector (CNS801)
❶ connector (CNP802)
❶ connector (CNS800)
❹ six screws (BVTP3 x8)
❺ Remove the MAIN board to direction of the arrow Ⓐ
Ⓐ
❸ DC fan
❷ two screws (BVTP3 x8)
❹ six screws (BVTP3 x8)

SECTION 3
TEST MODE

This equipment is provided with a test mode built in the microcomputer. The contents are described in the following.

[Initial Mode]

1. Press I/⏻ button while pressing both VIDEO and 5.1CH INPUT, DVD buttons simultaneously.
2. "INITIAL" is displayed on the fluorescent indicator tube, and the status of the unit is set in the following.

- All Memory is clear.
- Center, rear level set to 0.
- Center mode set to Phantom.
- DBFB clear.
- Muting clear.
- Volume level set to min.

[Factory Mode]

1. Press I/⏻ button while pressing three buttons of TV, DVD, 2CH, and 5.1CH INPUT, DVD simultaneously.
2. Factory setting same as initial except center mode set to normal using jog can set to volume max or min directly.

[FL Check Mode]

1. Press I/⏻ button while both CENTER MODE and VIDEO buttons simultaneously.
2. Fluorescent indicator tube and LED are checked, "FINISH" is displayed and the status of the unit is set back in normal condition.

[Gain Up Mode]

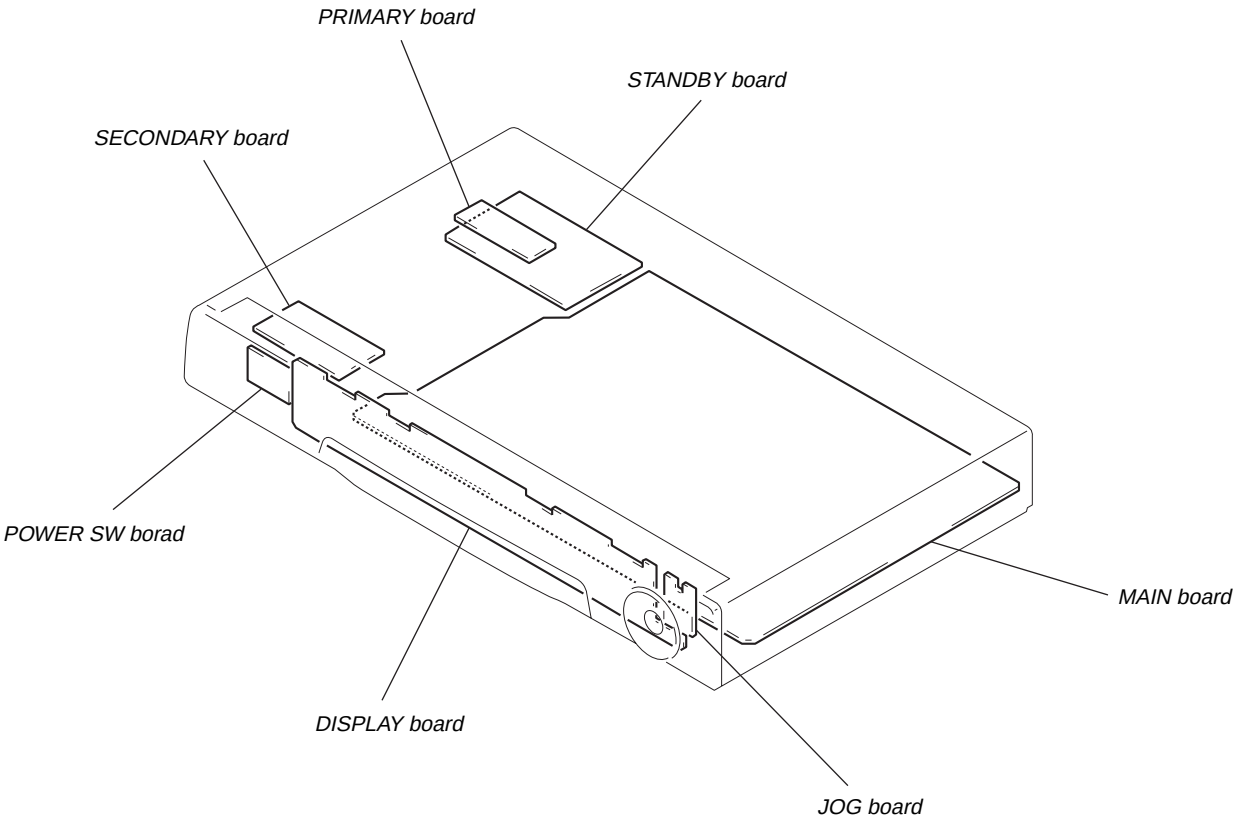
1. Press I/⏻ button while pressing SURROUND MODE button.
2. "GAIN UP" is displayed on the fluorescent indicator tube and the rear is gained up 3 dB.
3. To exit from this mode, press two buttons in the same manner as step1.
   "NORMAL" is displayed on the fluorescent indicator tube and the status of the unit is set back in normal condition.

[Version Mode]

1. Press I/⏻ button while pressing both CENTER MODE and SURROUND MODE buttons simultaneously.
2. Version of its destination is displayed on the fluorescent indicator tube.

SECTION 4
DIAGRAMS

- **Circuit Boards Location**



4-1. NOTES FOR PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

Note on Schematic Diagram:

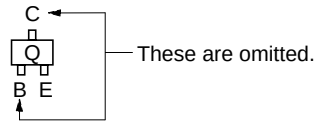
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

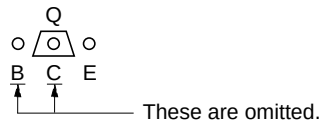
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B− : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : VIDEO
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : FRONT/AUDIO IN
  : REAR
  : CENTER
  : WOOFER

Note on Printed Wiring Board:

- : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- : Pattern from the side which enables seeing.
- Indication of transistor.

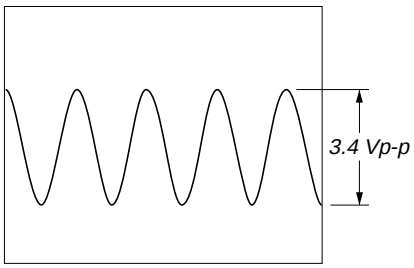




• **Waveforms**

– MAIN Board –

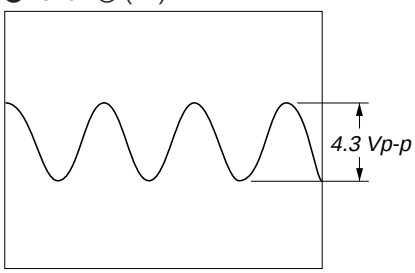
❶ IC300 ㉛ (OSC)



8 MHz

– DISPLAY Board –

❶ IC201 ㉞ (X1)

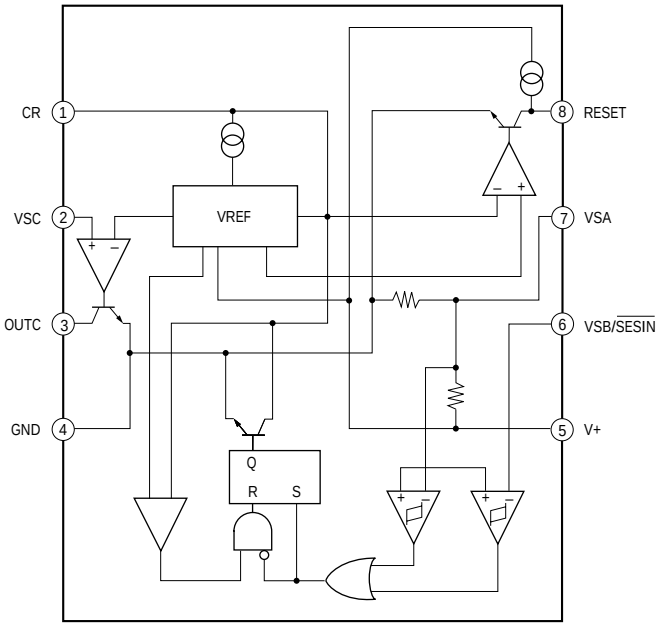


4.19 MHz

• **IC Block Diagrams**

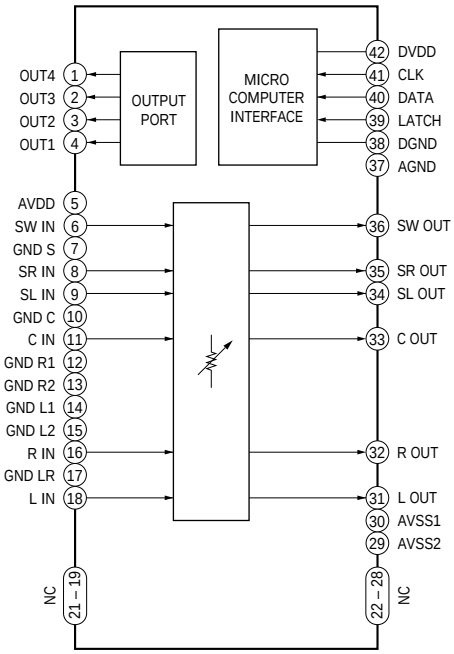
– STANDBY Board –

IC950 NJM2103D

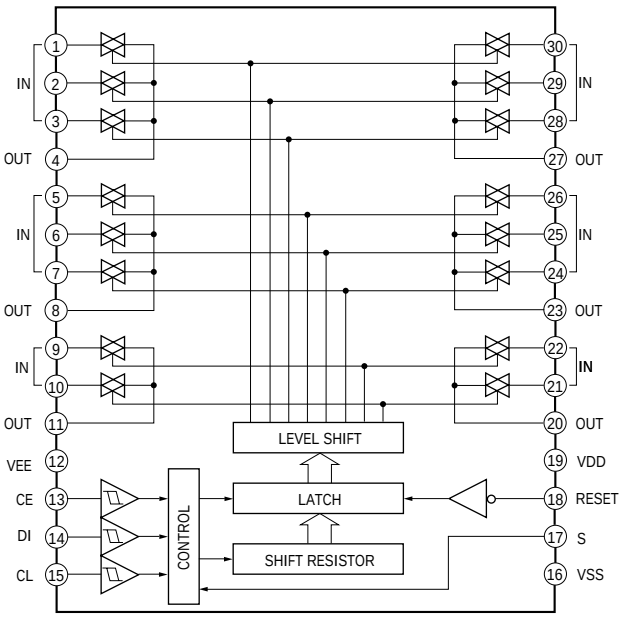


– MAIN Board –

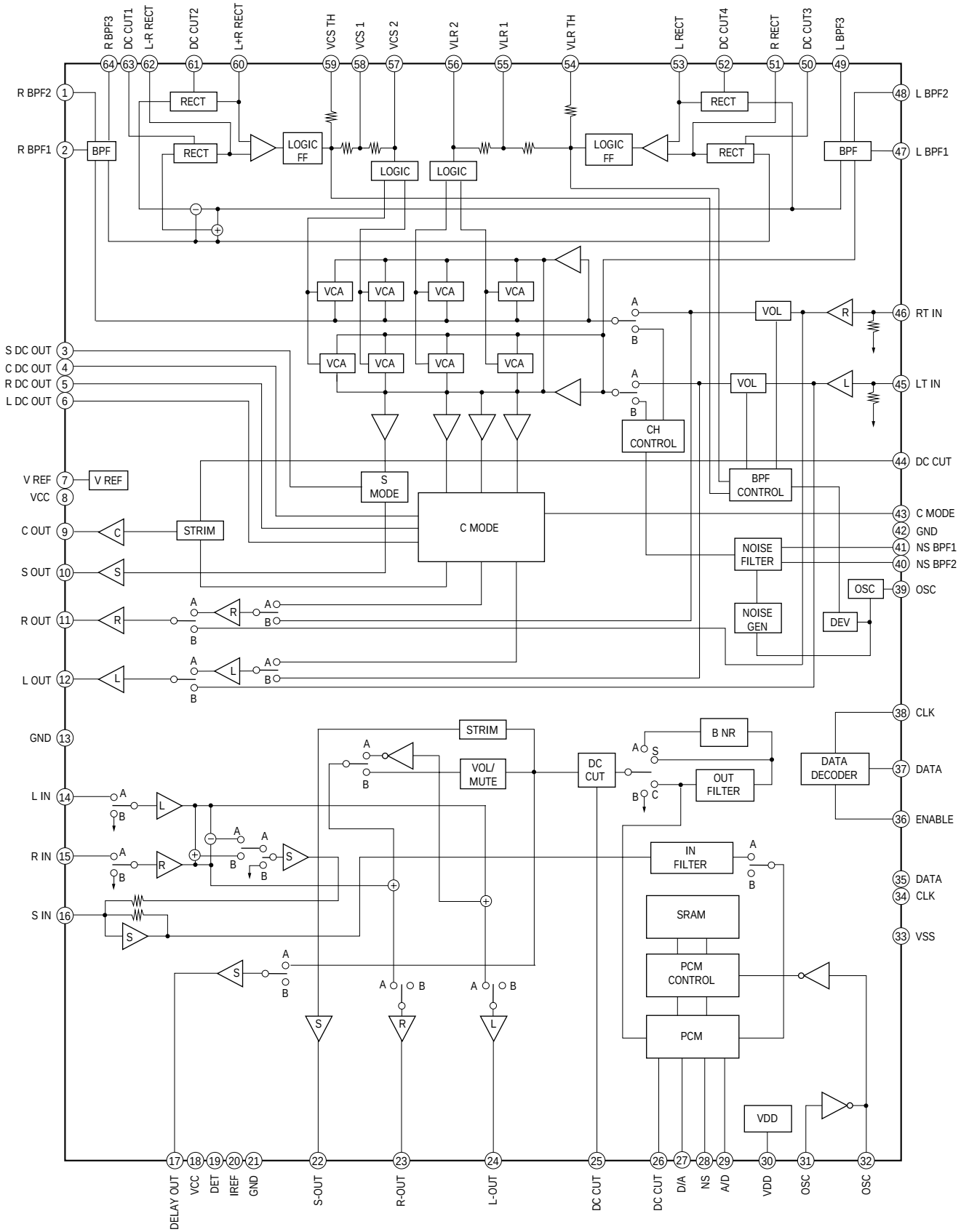
IC100 M62447SP



IC500 LC7822



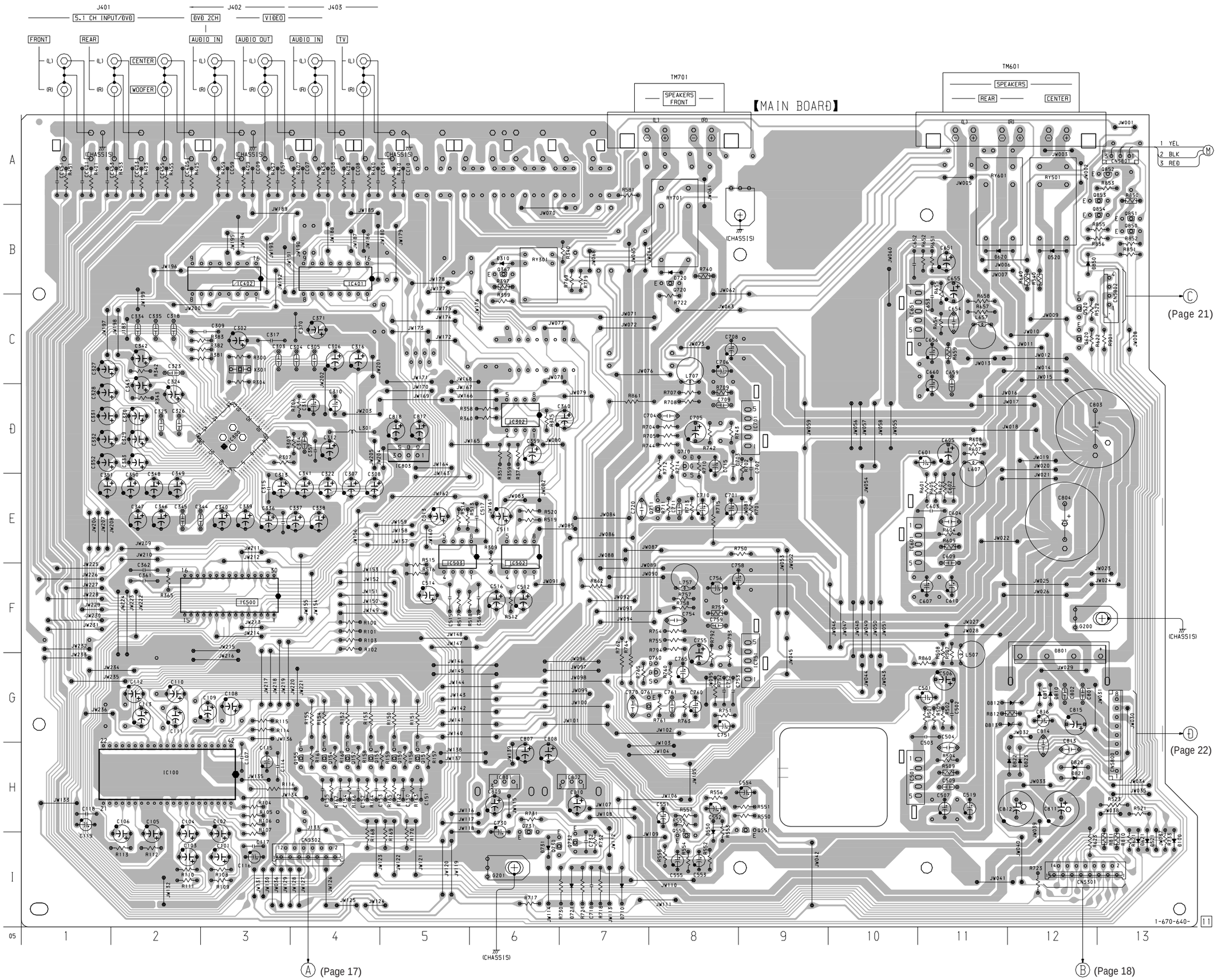
IC300 LV1035M



4-2. PRINTED WIRING BOARD – MAIN Section – • See page 6 for Circuit Boards Location.

• **Semiconductor Location**

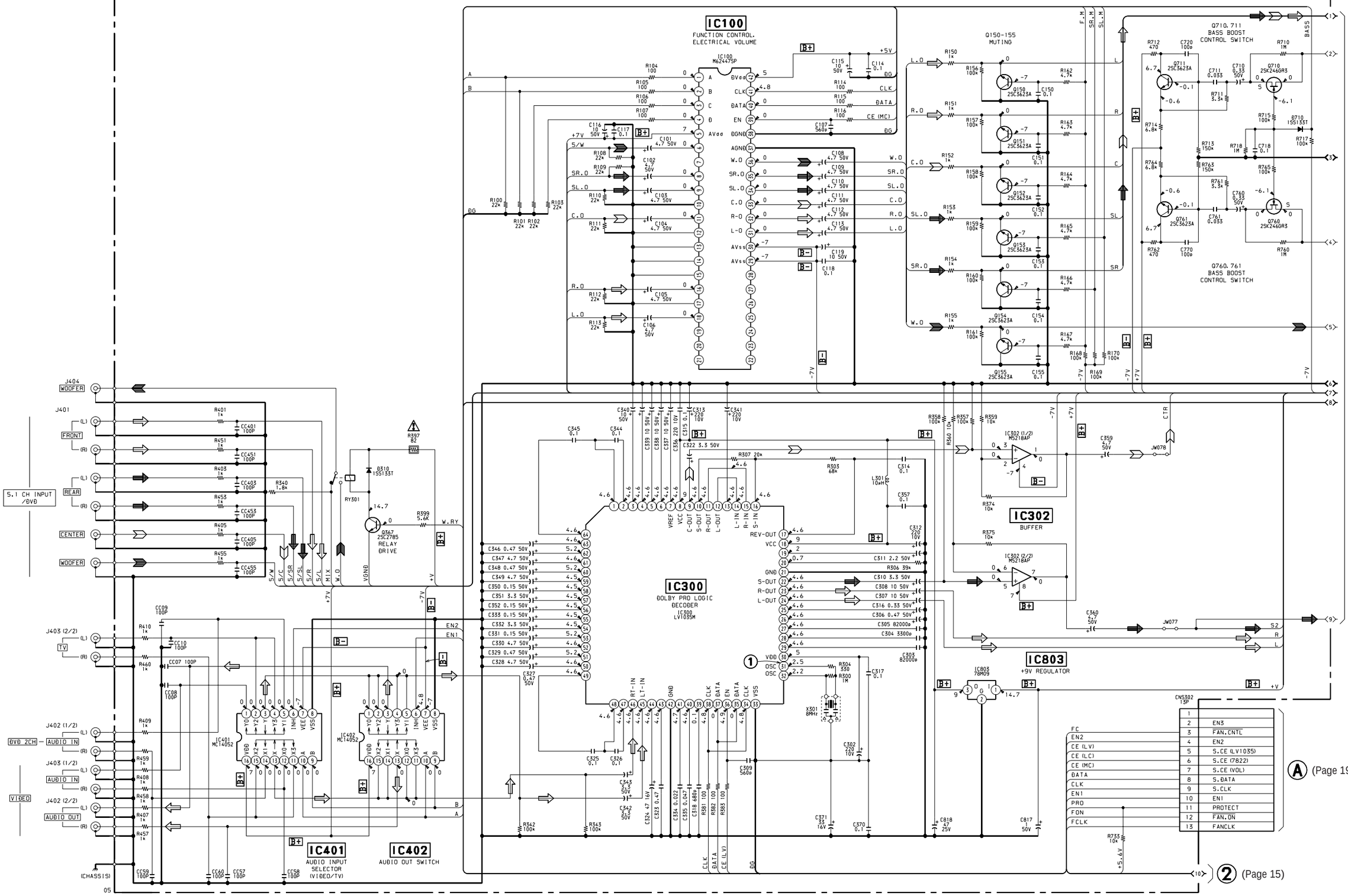
Ref. No.	Location
D100	I-13
D310	B-6
D520	B-12
D521	I-13
D550	H-8
D620	B-11
D621	I-13
D710	I-7
D720	B-8
D721	I-7
D731	I-6
D801	G-12
D810	G-12
D811	G-12
D812	G-12
D813	G-12
D820	H-12
D821	H-12
D822	H-12
D823	H-12
D850	B-12
IC100	H-2
IC300	D-3
IC302	D-6
IC401	B-4
IC402	B-3
IC500	F-3
IC501	H-10
IC502	E-6
IC503	E-5
IC601	E-10
IC651	C-10
IC701	D-9
IC751	G-9
IC801	H-6
IC802	H-7
IC803	D-5
Q150	H-5
Q151	H-5
Q152	H-4
Q153	H-4
Q154	H-4
Q155	H-4
Q367	B-6
Q520	C-12
Q550	I-8
Q551	H-9
Q620	C-12
Q710	D-8
Q711	E-8
Q720	B-8
Q730	I-6
Q731	H-6
Q732	I-7
Q760	G-8
Q761	G-7
Q850	B-13
Q851	B-13
Q852	A-13
Q853	A-13
Q854	B-13



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

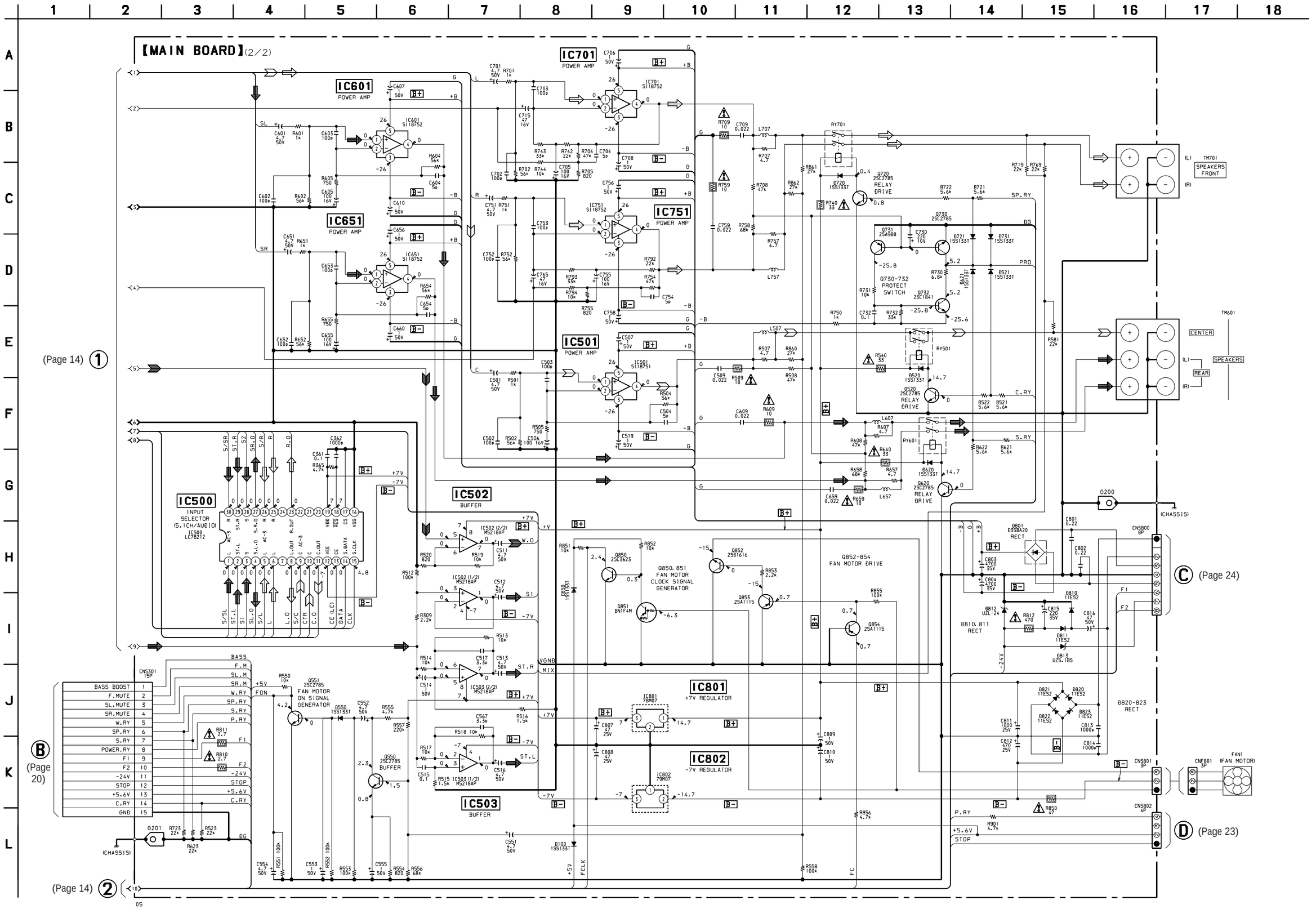
4-3. SCHEMATIC DIAGRAM – MAIN Section (1/2) – • See page 8 for Waveform. • See page 9 for IC Block Diagrams.

【MAIN BOARD】(1/2)

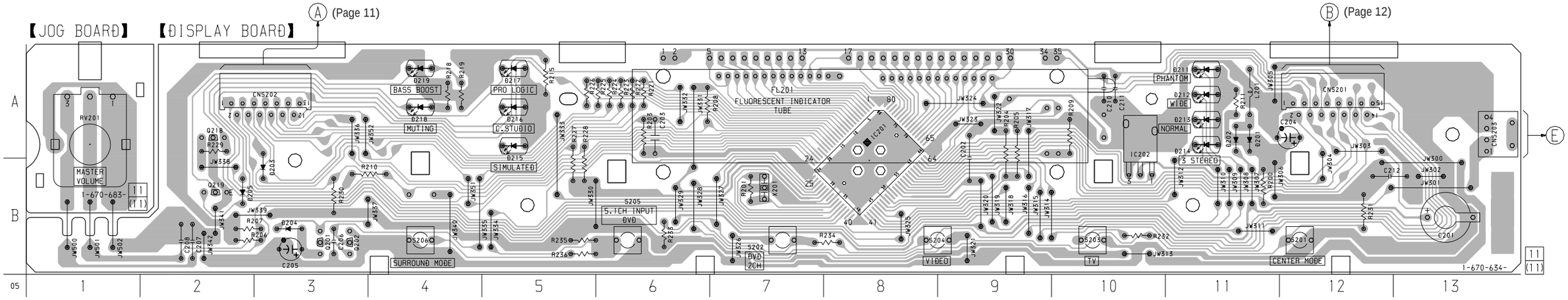


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-4. SCHEMATIC DIAGRAM – MAIN Section (2/2) – • See page 9 for IC Block Diagram.

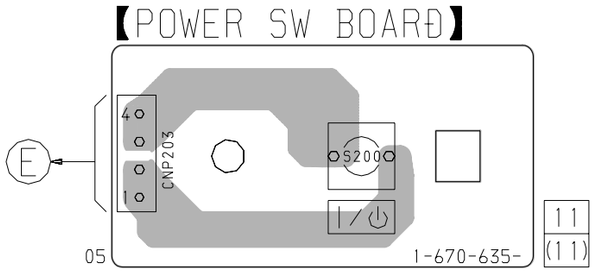


4-5. PRINTED WIRING BOARDS – PANEL Section – • See page 6 for Circuit Boards Location.

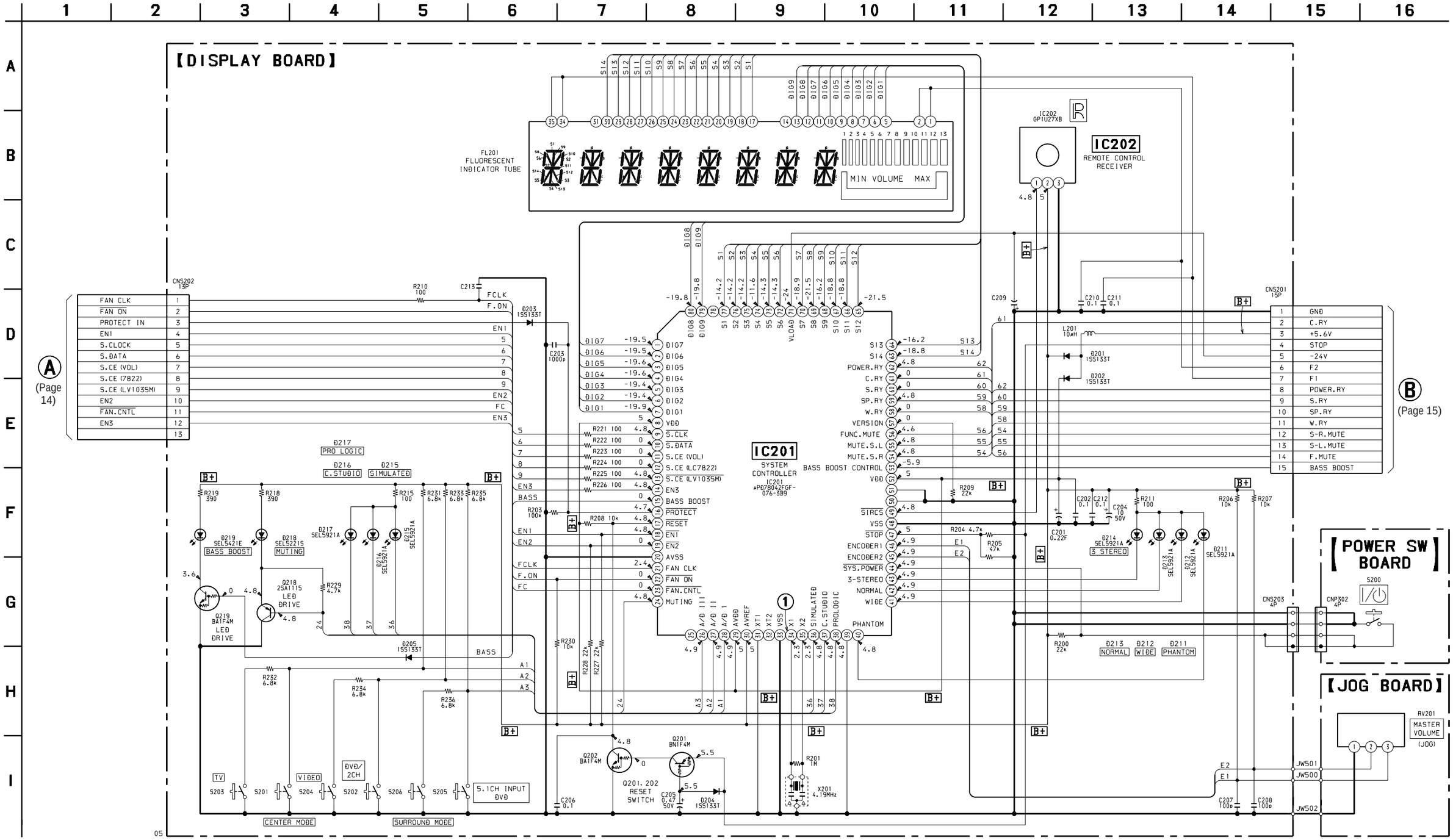


- **Semiconductor Location**

Ref. No.	Location
D201	A-11
D202	A-11
D203	B-3
D204	B-3
D205	B-2
D211	A-11
D212	A-11
D213	A-11
D214	A-11
D215	A-5
D216	A-5
D217	A-5
D218	A-4
D219	A-4
IC201	A-8
IC202	A-10
Q201	B-3
Q202	B-3
Q218	A-2
Q219	B-2



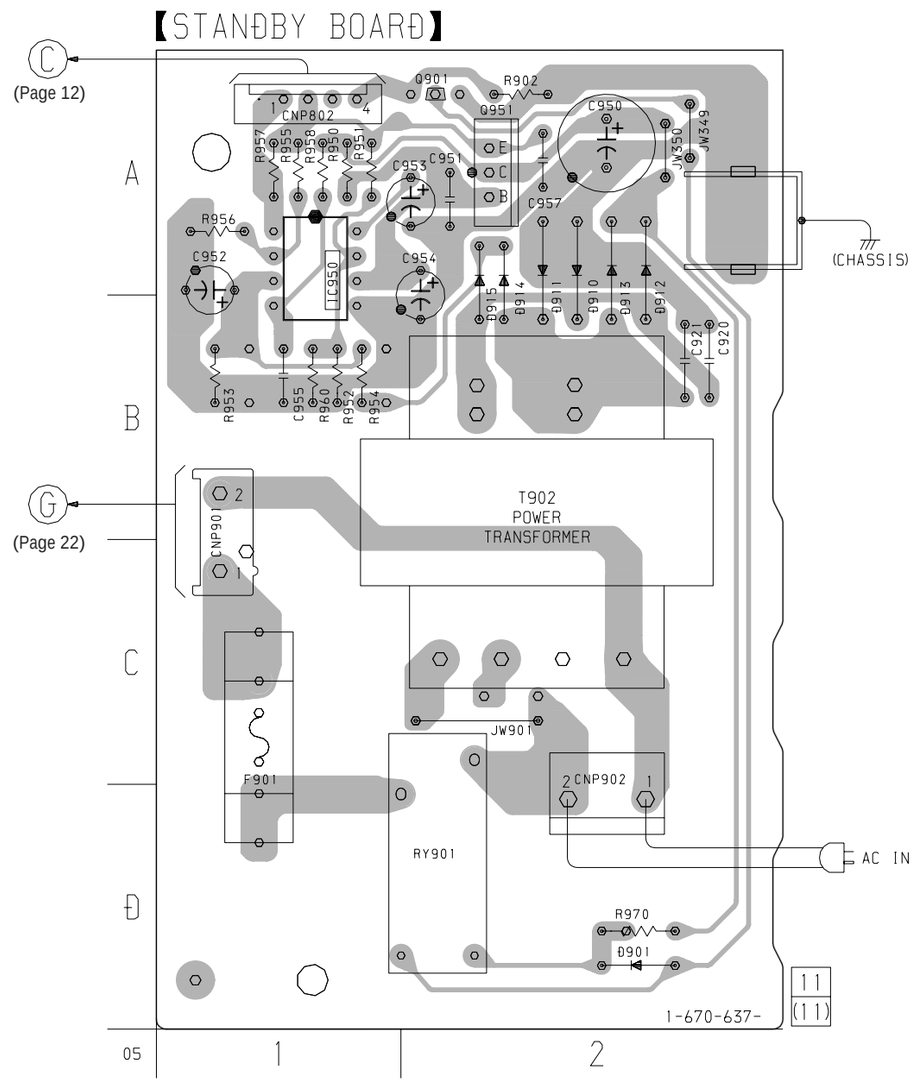
4-6. SCHEMATIC DIAGRAM – PANEL Section – • See page 8 for Waveform.

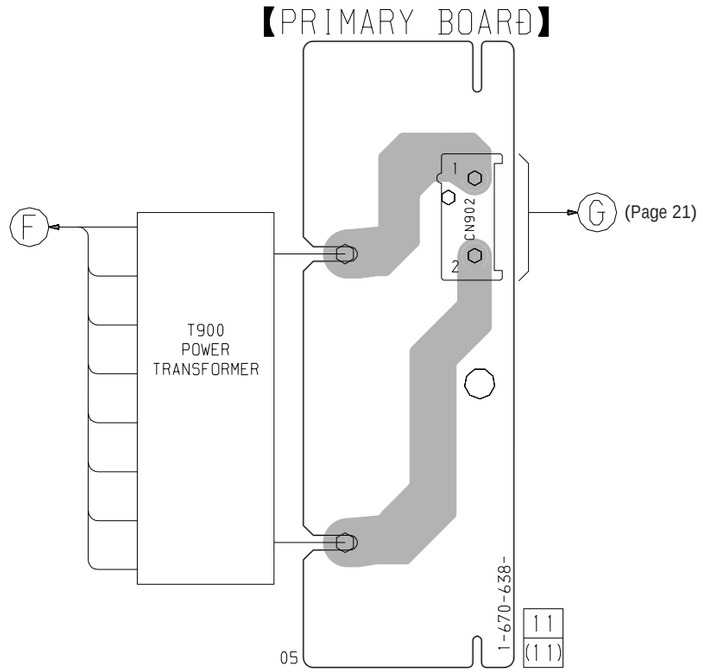


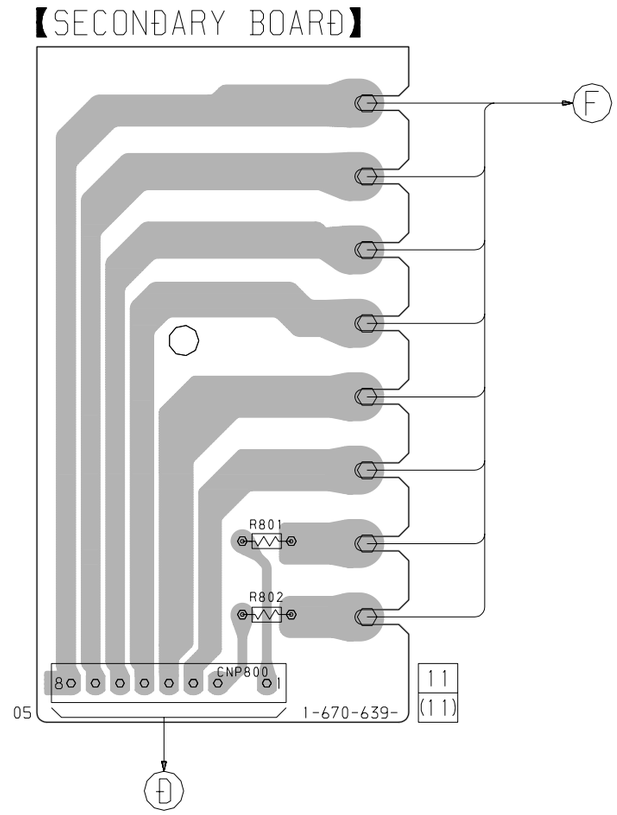
4-7. PRINTED WIRING BOARDS – POWER Section – • See page 6 for Circuit Boards Location.

• **Semiconductor Location**

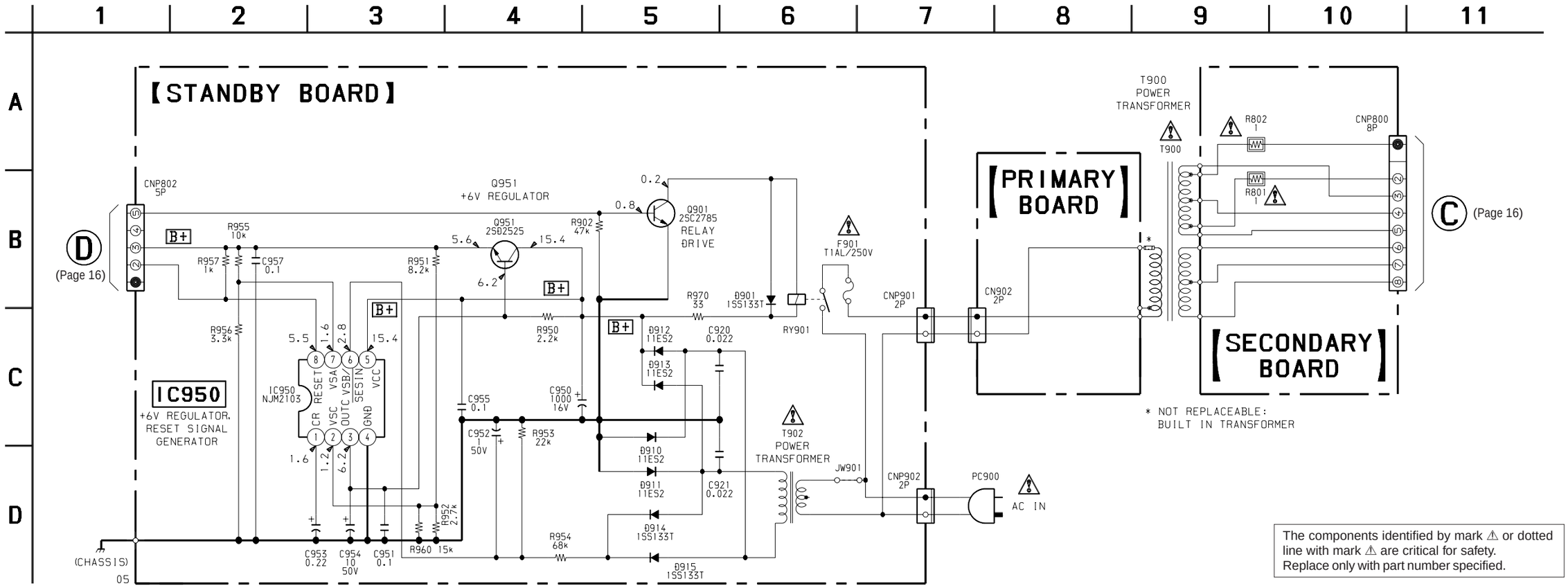
Ref. No.	Location
D901	D-2
D910	A-2
D911	A-2
D912	A-2
D913	A-2
D914	A-2
D915	A-2
IC950	A-1
Q901	A-2
Q951	A-2







4-8. SCHEMATIC DIAGRAM – POWER Section – • See page 9 for IC Block Diagram.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-9. IC PIN FUNCTION DESCRIPTION

• DISPLAY BOARD IC201 μPD78042FGF-076-3B9 (SYSTEM CONTROLLER, FL/LED DRIVER, KEY CONTROL)

Pin No.	Pin Name	I/O	Function
1 to 7	DIG7 to DIG1	O	Grid drive signal output to the fluorescent indicator tube (FL201)
8	VDD	—	Power supply terminal (+5V)
9	$\overline{\text{S. CLK}}$	O	Serial data transfer clock signal output to the M62447SP (IC100), LV1035M (IC300) and LC7822 (IC500)
10	$\overline{\text{S. DATA}}$	O	Serial data output to the M62447SP (IC100), LV1035M (IC300) and LC7822 (IC500)
11	S. CE (VOL)	O	Chip enable signal output to the M62447SP (IC100) "H" active
12	S. CE (LC7822)	O	Chip enable signal output to the LC7822 (IC500) "H" active
13	$\overline{\text{S. CE (LV1035M)}}$	O	Chip enable signal output to the LV1035M (IC300) "H" active
14	EN3	O	Enable signal output terminal "L" active Not used
15	BASS BOOST	O	LED drive signal output of the BASS BOOST LED (D219) "H": LED on
16	$\overline{\text{PROTECT}}$	I	Overload protection input terminal
17	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator circuit "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
18	$\overline{\text{EN1}}$	O	Enable signal output to the function switch (IC402) "L" active
19	$\overline{\text{EN2}}$	O	Enable signal output to the function switch (IC401) "L" active
20	AVSS	—	Ground terminal (for A/D converter)
21	FAN CLK	I	Fan motor clock signal input terminal
22	$\overline{\text{FAN ON}}$	I	Fan on signal input for the fan motor drive
23	$\overline{\text{FAN. CNTL}}$	O	Fan motor control signal output terminal "L": fan motor on
24	MUTING	O	LED drive signal output of the MUTING LED (D218) "H": LED on
25	—	I	Not used (open)
26	A/D III	I	Key input terminal (A/D input) S205, 206 (5.1 IN, SURROUND MODE keys input)
27	A/D II	I	Key input terminal (A/D input) S202, 204 (VIDEO, DVD keys input)
28	A/D I	I	Key input terminal (A/D input) S201, 203 (CENTER MODE, TV keys input)
29	AVDD	—	Power supply terminal (+5V) (for A/D converter)
30	AVREF	I	Reference voltage (+5V) input terminal (for A/D converter)
31	XT1	I	Sub system clock input terminal Not used (fixed at "L")
32	XT2	O	Sub system clock output terminal Not used (open)
33	VSS	—	Ground terminal
34	X1	I	Main system clock input terminal (4.19 MHz)
35	X2	O	Main system clock output terminal (4.19 MHz)
36	SIMULATED	O	LED drive signal output of the SIMULATED LED (D215) "L": LED on
37	C. STUDIO	O	LED drive signal output of the C.STUDIO LED (D216) "L": LED on
38	PROLOGIC	O	LED drive signal output of the PROLOGIC LED (D217) "L": LED on
39	—	I	Not used (fixed at "L")
40	PHANTOM	O	LED drive signal output of the PHANTOM LED (D211) "L": LED on
41	WIDE	O	LED drive signal output of the WIDE LED (D212) "L": LED on
42	NORMAL	O	LED drive signal output of the NORMAL LED (D213) "L": LED on
43	3-STEREO	O	LED drive signal output of the 3 STEREO LED (D214) "L": LED on
44	$\overline{\text{SYS. POWER}}$	I	System power on/off switch (S200 I/⏻) input terminal
45	ENCODER 2	I	Jog dial pulse input from the rotary encoder (RV201 MASTER VOLUME)
46	ENCODER 1	I	Jog dial pulse input from the rotary encoder (RV201 MASTER VOLUME)
47	$\overline{\text{STOP}}$	I	Power down detection signal input from the NJM2103D (IC950) "L": power down
48	VSS	—	Ground terminal
49	$\overline{\text{SIRCS}}$	I	Sircs signal input from the remote control receiver (IC202)
50, 51	—	I	Not used (fixed at "L")

Pin No.	Pin Name	I/O	Function
52	VDD	—	Power supply terminal (+5V)
53	BASS BOOST CONTROL	O	Bass boost on/off control signal output for the DBFB circuit "H": bass boost on
54	MUTE. S. R	O	Line muting on/off control signal output for the rear speaker right channel signal "H": muting on
55	MUTE. S. L	O	Line muting on/off control signal output for the rear speaker left channel signal "H": muting on
56	FUNC. MUTE	O	Line muting on/off control signal output for the front and center speakers signal "H": muting on
57	VERSION	I	Setting terminal for the version (fixed at "L" in this set)
58	W. RY	O	Woofer on/off relay drive signal output terminal "H": relay on
59	SP. RY	O	Front speaker on/off relay drive signal output terminal (for protect) "H": relay on
60	S. RY	O	Rear speaker on/off relay drive signal output terminal (for protect) "H": relay on
61	C. RY	O	Center speaker on/off relay drive signal output terminal (for protect) "H": relay on
62	POWER. RY	O	Power on/off relay drive signal output terminal "H": relay on (power on)
63 to 70	S14 to S7	O	Segment drive signal output to the fluorescent indicator tube (FL201)
71	VLOAD	—	Power supply terminal (–24V) (for FL drive)
72 to 77	S6 to S1	O	Segment drive signal output to the fluorescent indicator tube (FL201)
78	—	O	Not used (open)
79, 80	DIG9, DIG8	O	Grid drive signal output to the fluorescent indicator tube (FL201)

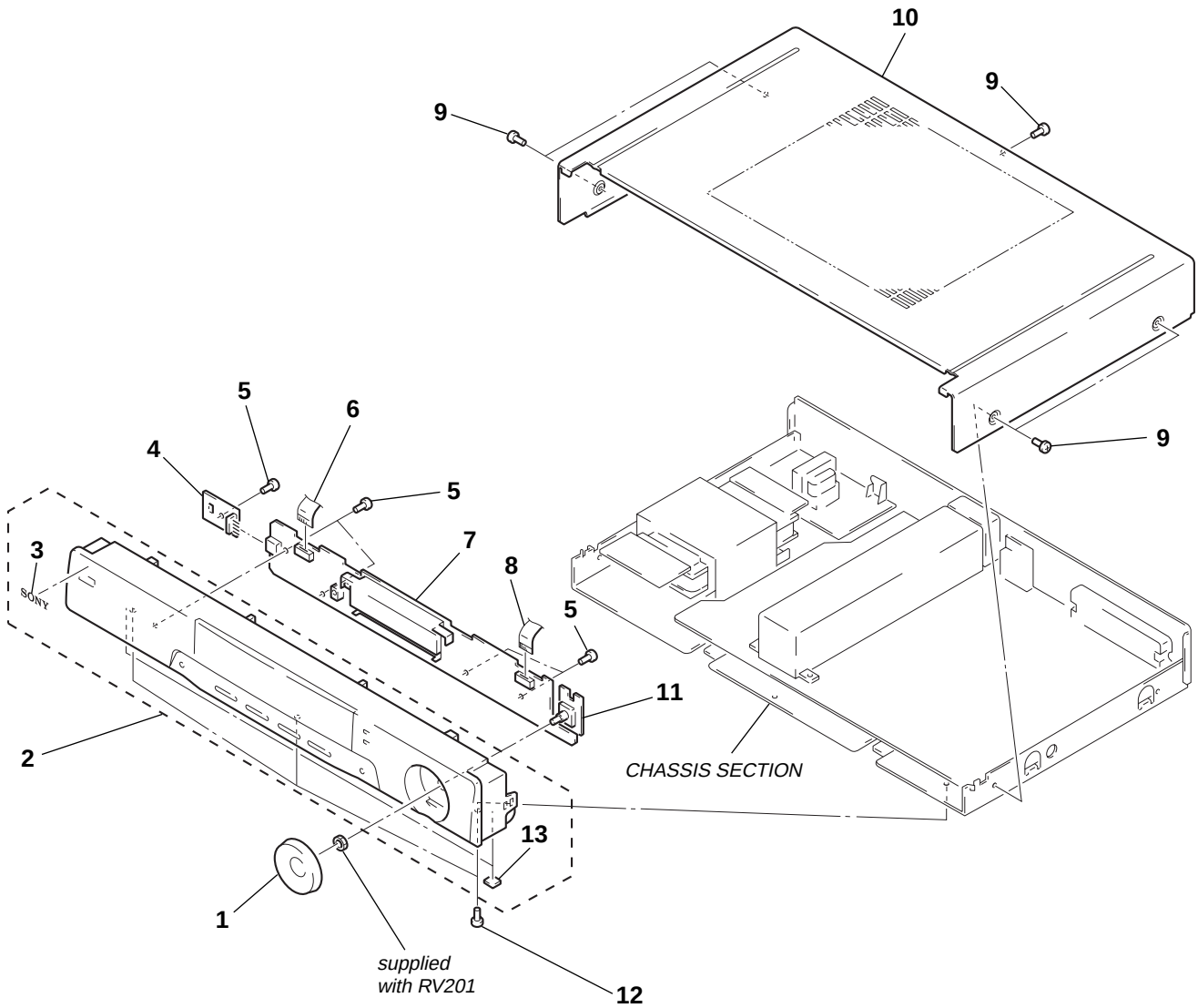
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

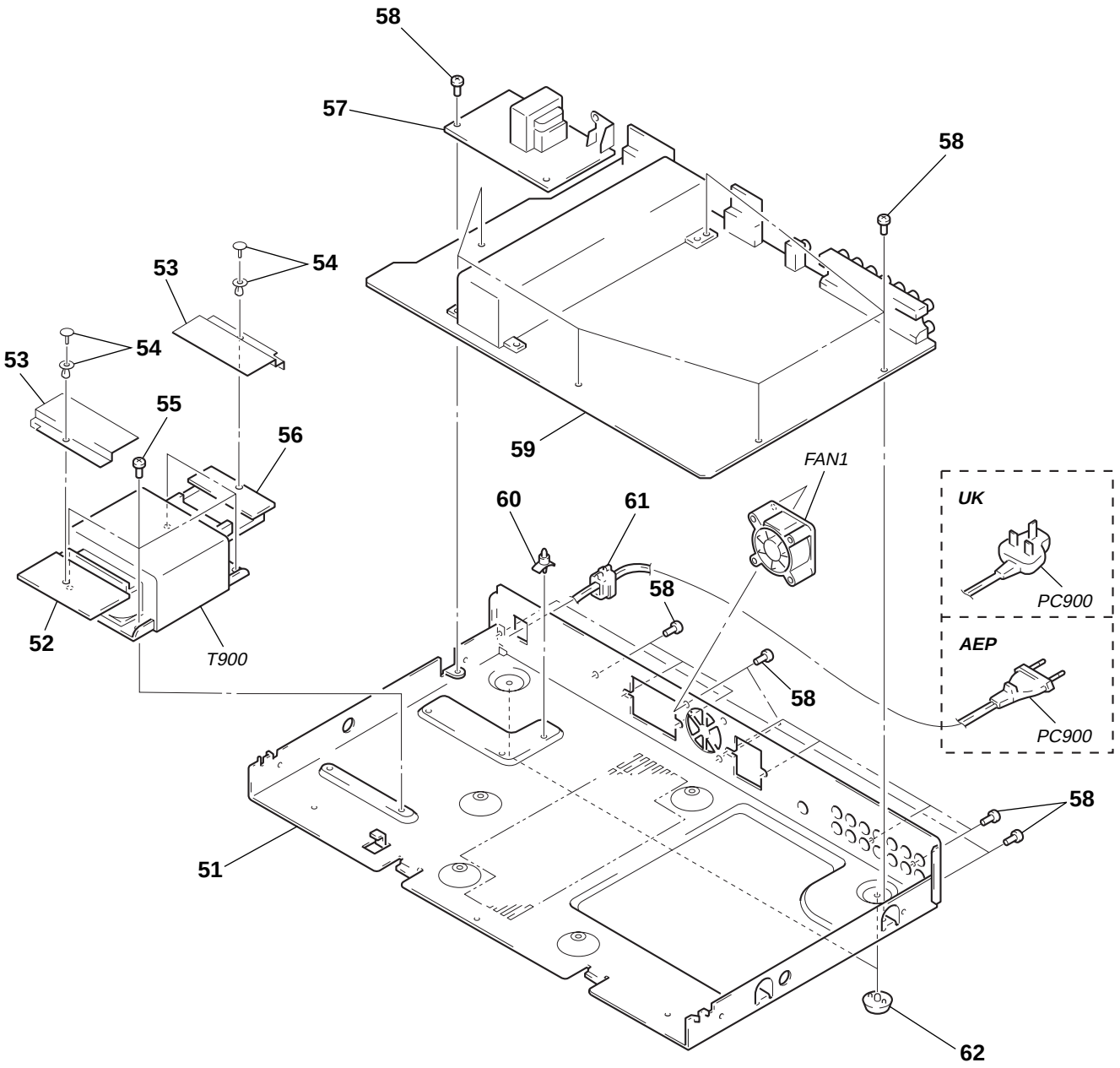
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) CASE, FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-211-178-01	KNOB (VOL)	
2	X-4950-243-1	FRONT PANEL ASSY	
3	3-008-600-11	EMBLEM (5-AR), SONY	
* 4	1-670-635-11	POWER SW BOARD	
5	4-951-620-01	SCREW (2.6X8), +BVTP	
6	1-777-353-11	WIRE (FLAT TYPE) (15 CORE)	
* 7	A-4414-849-A	DISPLAY BOARD, COMPLETE	
8	1-769-973-11	WIRE (FLAT TYPE) (13 CORE)	
9	3-710-901-11	SCREW, TAPPING	
* 10	4-211-182-01	CASE	
* 11	1-670-683-11	JOG BOARD	
12	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
13	4-977-358-11	CUSHION	

(2) CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 51	4-211-183-01	CHASSIS PANEL	
* 52	1-670-639-11	SECONDARY BOARD	
53	4-212-070-01	INSULATOR (PT)	
54	3-531-576-11	RIVET	
55	7-685-880-09	SCREW +BVTT 4X6 (S)	
* 56	1-670-638-11	PRIMARY BOARD	
* 57	A-4414-851-A	STANDBY BOARD, COMPLETE	
58	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

Ref. No.	Part No.	Description	Remark
* 59	A-4414-854-A	MAIN BOARD, COMPLETE	
* 60	4-924-098-21	HOLDER, PC BOARD	
* 61	3-703-244-00	BUSHING (2104), CORD	
62	4-965-822-01	FOOT	
FAN1	1-763-137-11	FAN, DC	
⚠PC900	1-751-520-11	CORD, POWER (UK)	
⚠PC900	1-777-071-21	CORD, POWER (AEP)	
⚠T900	1-431-979-11	TRANSFORMER, POWER	

SECTION 6
ELECTRICAL PARTS LIST

DISPLAY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4414-849-A	DISPLAY BOARD, COMPLETE			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-943-107-11	HOLDER (FL TUBE)			
		< CAPACITOR >			
C201	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V
C202	1-164-159-11	CERAMIC	0.1uF		50V
C203	1-162-294-31	CERAMIC	0.001uF	10%	50V
C204	1-124-261-00	ELECT	10uF	20%	50V
C205	1-124-465-00	ELECT	0.47uF	20%	50V
C206	1-164-159-11	CERAMIC	0.1uF		50V
C207	1-162-282-31	CERAMIC	100PF	10%	50V
C208	1-162-282-31	CERAMIC	100PF	10%	50V
C210	1-164-159-11	CERAMIC	0.1uF		50V
C211	1-164-159-11	CERAMIC	0.1uF		50V
C212	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CNS201	1-569-306-11	SOCKET, CONNECTOR (L TYRE) 15P			
CNS202	1-568-444-11	SOCKET, CONNECTOR 13P			
* CNS203	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
		< DIODE >			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D203	8-719-911-19	DIODE 1SS119			
D204	8-719-911-19	DIODE 1SS119			
D205	8-719-911-19	DIODE 1SS119			
D211	8-719-046-36	LED SEL5921A-TP15 (PHANTOM)			
D212	8-719-046-36	LED SEL5921A-TP15 (WIDE)			
D213	8-719-046-36	LED SEL5921A-TP15 (NORMAL)			
D214	8-719-046-36	LED SEL5921A-TP15 (3 STEREO)			
D215	8-719-046-36	LED SEL5921A-TH15 (SIMULATED)			
D216	8-719-046-36	LED SEL5921A-TH15 (C. STUDIO)			
D217	8-719-046-36	LED SEL5921A-TH15 (PRO LOGIC)			
D218	8-719-046-44	LED SEL5221S (MUTING)			
D219	8-719-046-43	LED SEL5421E-TP15 (BASS BOOST)			
		< FLUORESCENT INDICATOR TUBE >			
FL201	1-517-786-11	INDICATOR TUBE, FLUORESCENT			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC201	8-759-546-41	IC uPD78042FGF-076-3B9			
IC202	8-759-332-18	IC GP1U27XB			
		< COIL >			
L201	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q201	8-729-900-63	TRANSISTOR	DTA124ES		
Q202	8-729-900-36	TRANSISTOR	DTC124ES		
Q218	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q219	8-729-900-36	TRANSISTOR	DTC124ES		
		< RESISTOR >			
R200	1-249-433-11	CARBON	22K	5%	1/4W
R201	1-247-903-00	CARBON	1M	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W
R204	1-249-425-11	CARBON	4.7K	5%	1/4W
R205	1-249-437-11	CARBON	47K	5%	1/4W
R206	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-249-429-11	CARBON	10K	5%	1/4W
R209	1-249-433-11	CARBON	22K	5%	1/4W
R210	1-247-807-31	CARBON	100	5%	1/4W
R211	1-247-807-31	CARBON	100	5%	1/4W
R215	1-247-807-31	CARBON	100	5%	1/4W
R218	1-249-412-11	CARBON	390	5%	1/4W
R219	1-249-412-11	CARBON	390	5%	1/4W
R221	1-247-807-31	CARBON	100	5%	1/4W
R222	1-247-807-31	CARBON	100	5%	1/4W
R223	1-247-807-31	CARBON	100	5%	1/4W
R224	1-247-807-31	CARBON	100	5%	1/4W
R225	1-247-807-31	CARBON	100	5%	1/4W
R226	1-247-807-31	CARBON	100	5%	1/4W
R227	1-249-433-11	CARBON	22K	5%	1/4W
R228	1-249-433-11	CARBON	22K	5%	1/4W
R229	1-249-425-11	CARBON	4.7K	5%	1/4W
R230	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-427-11	CARBON	6.8K	5%	1/4W
R232	1-249-427-11	CARBON	6.8K	5%	1/4W
R233	1-249-427-11	CARBON	6.8K	5%	1/4W
R234	1-249-427-11	CARBON	6.8K	5%	1/4W
R235	1-249-427-11	CARBON	6.8K	5%	1/4W

DISPLAY **JOG** **MAIN**

Ref. No.	Part No.	Description			Remark
R236	1-249-427-11	CARBON	6.8K	5%	1/4W
		< SWITCH >			
S201	1-762-875-21	SWITCH, KEYBOARD (CENTER MODE)			
S202	1-762-875-21	SWITCH, KEYBOARD (DVD, 2CH)			
S203	1-762-875-21	SWITCH, KEYBOARD (TV)			
S204	1-762-875-21	SWITCH, KEYBOARD (VIDEO)			
S205	1-762-875-21	SWITCH, KEYBOARD (5.1CH INPUT, DVD)			
S206	1-762-875-21	SWITCH, KEYBOARD (SURROUND MODE)			
		< VIBRATOR >			
X201	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			
**********					
*	1-670-683-11	JOG BOARD			
		**********			
		< ROTARY ENCODER >			
RV201	1-475-886-11	ENCODER, ROTARY (MASTER VOLUME)			
**********					
*	A-4414-854-A	MAIN BOARD, COMPLETE			
		**********			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C101	1-126-163-11	ELECT	4.7uF	20%	50V
C102	1-126-163-11	ELECT	4.7uF	20%	50V
C103	1-126-163-11	ELECT	4.7uF	20%	50V
C104	1-126-163-11	ELECT	4.7uF	20%	50V
C105	1-126-163-11	ELECT	4.7uF	20%	50V
C106	1-126-163-11	ELECT	4.7uF	20%	50V
C107	1-162-291-31	CERAMIC	560PF	10%	50V
C108	1-126-163-11	ELECT	4.7uF	20%	50V
C109	1-126-163-11	ELECT	4.7uF	20%	50V
C110	1-126-163-11	ELECT	4.7uF	20%	50V
C111	1-126-163-11	ELECT	4.7uF	20%	50V
C112	1-126-163-11	ELECT	4.7uF	20%	50V
C113	1-126-163-11	ELECT	4.7uF	20%	50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-126-964-11	ELECT	10uF	20%	50V
C116	1-126-964-11	ELECT	10uF	20%	50V
C117	1-164-159-11	CERAMIC	0.1uF		50V
C118	1-164-159-11	CERAMIC	0.1uF		50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C150	1-164-159-11	CERAMIC	0.1uF		50V
C151	1-164-159-11	CERAMIC	0.1uF		50V
C152	1-164-159-11	CERAMIC	0.1uF		50V
C153	1-164-159-11	CERAMIC	0.1uF		50V
C154	1-164-159-11	CERAMIC	0.1uF		50V
C155	1-164-159-11	CERAMIC	0.1uF		50V
C302	1-126-934-11	ELECT	220uF	20%	10V
C303	1-130-494-11	MYLAR	0.082uF	5%	50V
C304	1-137-367-11	FILM	0.0033uF	5%	50V
C305	1-130-494-11	MYLAR	0.082uF	5%	50V
C306	1-126-959-11	ELECT	0.47uF	20%	50V

Ref. No.	Part No.	Description			Remark
C307	1-126-964-11	ELECT	10uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-162-291-31	CERAMIC	560PF	10%	50V
C310	1-126-962-11	ELECT	3.3uF	20%	50V
C311	1-126-961-11	ELECT	2.2uF	20%	50V
C312	1-126-934-11	ELECT	220uF	20%	10V
C313	1-126-934-11	ELECT	220uF	20%	10V
C314	1-136-165-00	FILM	0.1uF	5%	50V
C315	1-164-159-11	CERAMIC	0.1uF		50V
C316	1-124-252-00	ELECT	0.33uF	20%	50V
C317	1-164-159-11	CERAMIC	0.1uF		50V
C318	1-136-357-11	FILM	680PF	5%	50V
C322	1-126-962-11	ELECT	3.3uF	20%	50V
C323	1-136-173-00	FILM	0.47uF	5%	50V
C324	1-104-664-11	ELECT	47uF	20%	16V
C325	1-136-165-00	FILM	0.1uF	5%	50V
C326	1-136-165-00	FILM	0.1uF	5%	50V
C327	1-126-959-11	ELECT	0.47uF	20%	50V
C328	1-126-163-11	ELECT	4.7uF	20%	50V
C329	1-126-959-11	ELECT	0.47uF	20%	50V
C330	1-126-163-11	ELECT	4.7uF	20%	50V
C331	1-124-250-11	ELECT	0.15uF	20%	50V
C332	1-126-962-11	ELECT	3.3uF	20%	50V
C333	1-124-250-11	ELECT	0.15uF	20%	50V
C334	1-137-372-11	FILM	0.022uF	5%	50V
C335	1-136-161-00	FILM	0.047uF	5%	50V
C336	1-126-934-11	ELECT	220uF	20%	10V
C337	1-126-964-11	ELECT	10uF	20%	50V
C338	1-126-964-11	ELECT	10uF	20%	50V
C339	1-126-964-11	ELECT	10uF	20%	50V
C340	1-126-964-11	ELECT	10uF	20%	50V
C341	1-126-934-11	ELECT	220uF	20%	10V
C342	1-126-962-11	ELECT	3.3uF	20%	50V
C343	1-126-962-11	ELECT	3.3uF	20%	50V
C344	1-136-165-00	FILM	0.1uF	5%	50V
C345	1-136-165-00	FILM	0.1uF	5%	50V
C346	1-126-959-11	ELECT	0.47uF	20%	50V
C347	1-126-163-11	ELECT	4.7uF	20%	50V
C348	1-126-959-11	ELECT	0.47uF	20%	50V
C349	1-126-163-11	ELECT	4.7uF	20%	50V
C350	1-124-250-11	ELECT	0.15uF	20%	50V
C351	1-126-962-11	ELECT	3.3uF	20%	50V
C352	1-124-250-11	ELECT	0.15uF	20%	50V
C357	1-164-159-11	CERAMIC	0.1uF		50V
C359	1-126-163-11	ELECT	4.7uF	20%	50V
C360	1-126-163-11	ELECT	4.7uF	20%	50V
C361	1-164-159-11	CERAMIC	0.1uF		50V
C362	1-162-294-31	CERAMIC	0.001uF	10%	50V
C370	1-164-159-11	CERAMIC	0.1uF		50V
C371	1-126-966-11	ELECT	33uF	20%	16V
C501	1-126-163-11	ELECT	4.7uF	20%	50V
C502	1-162-282-31	CERAMIC	100PF	10%	50V
C503	1-162-282-31	CERAMIC	100PF	10%	50V
C504	1-102-942-00	CERAMIC	5.0PF	0.5PF	50V
C506	1-104-665-11	ELECT	100uF	20%	16V
C507	1-126-160-11	ELECT	1uF	20%	50V
C509	1-137-372-11	FILM	0.022uF	5%	50V
C511	1-126-163-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description			Remark
C512	1-126-163-11	ELECT	4.7uF	20%	50V
C513	1-126-163-11	ELECT	4.7uF	20%	50V
C514	1-126-160-11	ELECT	1uF	20%	50V
C515	1-164-159-11	CERAMIC	0.1uF		50V
C516	1-126-163-11	ELECT	4.7uF	20%	50V
C517	1-162-193-31	CERAMIC	3.3PF	10%	50V
C519	1-126-160-11	ELECT	1uF	20%	50V
C551	1-126-163-11	ELECT	4.7uF	20%	50V
C552	1-126-163-11	ELECT	4.7uF	20%	50V
C553	1-126-160-11	ELECT	1uF	20%	50V
C554	1-126-163-11	ELECT	4.7uF	20%	50V
C555	1-126-160-11	ELECT	1uF	20%	50V
C567	1-162-193-31	CERAMIC	3.3PF	10%	50V
C601	1-126-163-11	ELECT	4.7uF	20%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-162-282-31	CERAMIC	100PF	10%	50V
C604	1-102-942-00	CERAMIC	5.0PF	0.5PF	50V
C605	1-104-665-11	ELECT	100uF	20%	16V
C607	1-126-160-11	ELECT	1uF	20%	50V
C609	1-137-372-11	FILM	0.022uF	5%	50V
C610	1-126-160-11	ELECT	1uF	20%	50V
C651	1-126-163-11	ELECT	4.7uF	20%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-102-942-00	CERAMIC	5.0PF	0.5PF	50V
C655	1-104-665-11	ELECT	100uF	20%	16V
C656	1-126-160-11	ELECT	1uF	20%	50V
C659	1-137-372-11	FILM	0.022uF	5%	50V
C660	1-126-160-11	ELECT	1uF	20%	50V
C701	1-126-163-11	ELECT	4.7uF	20%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-162-282-31	CERAMIC	100PF	10%	50V
C704	1-102-942-00	CERAMIC	5.0PF	0.5PF	50V
C705	1-104-665-11	ELECT	100uF	20%	16V
C706	1-126-160-11	ELECT	1uF	20%	50V
C708	1-126-160-11	ELECT	1uF	20%	50V
C709	1-137-372-11	FILM	0.022uF	5%	50V
C710	1-124-252-00	ELECT	0.33uF	20%	50V
C711	1-136-159-00	FILM	0.033uF	5%	50V
C715	1-104-664-11	ELECT	47uF	20%	16V
C718	1-164-159-11	CERAMIC	0.1uF		50V
C720	1-102-973-00	CERAMIC	100PF	5%	50V
C730	1-126-934-11	ELECT	220uF	20%	10V
C732	1-164-159-11	CERAMIC	0.1uF		50V
C751	1-126-163-11	ELECT	4.7uF	20%	50V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-162-282-31	CERAMIC	100PF	10%	50V
C754	1-102-942-00	CERAMIC	5.0PF	0.5PF	50V
C755	1-104-665-11	ELECT	100uF	20%	16V
C756	1-126-160-11	ELECT	1uF	20%	50V
C758	1-126-160-11	ELECT	1uF	20%	50V
C759	1-137-372-11	FILM	0.022uF	5%	50V
C760	1-124-252-00	ELECT	0.33uF	20%	50V
C761	1-136-159-00	FILM	0.033uF	5%	50V
C765	1-104-664-11	ELECT	47uF	20%	16V
C770	1-102-973-00	CERAMIC	100PF	5%	50V
C801	1-136-169-00	FILM	0.22uF	5%	50V

Ref. No.	Part No.	Description			Remark
C802	1-136-169-00	FILM	0.22uF	5%	50V
C803	1-126-256-11	ELECT	4700uF	20%	35V
C804	1-126-256-11	ELECT	4700uF	20%	35V
C807	1-104-664-11	ELECT	47uF	20%	25V
C808	1-104-664-11	ELECT	47uF	20%	25V
C809	1-126-160-11	ELECT	1uF	20%	50V
C810	1-126-160-11	ELECT	1uF	20%	50V
C811	1-126-942-61	ELECT	1000uF	20%	25V
C812	1-126-941-11	ELECT	470uF	20%	25V
C813	1-101-001-00	CERAMIC	0.001uF		50V
C814	1-101-001-00	CERAMIC	0.001uF		50V
C815	1-126-949-11	ELECT	220uF	20%	35V
C816	1-126-967-11	ELECT	47uF	20%	50V
C817	1-126-160-11	ELECT	1uF	20%	50V
C818	1-104-664-11	ELECT	47uF	20%	25V
CC07	1-162-282-31	CERAMIC	100PF	10%	50V
CC08	1-162-282-31	CERAMIC	100PF	10%	50V
CC09	1-162-282-31	CERAMIC	100PF	10%	50V
CC10	1-162-282-31	CERAMIC	100PF	10%	50V
CC57	1-162-282-31	CERAMIC	100PF	10%	50V
CC58	1-162-282-31	CERAMIC	100PF	10%	50V
CC59	1-162-282-31	CERAMIC	100PF	10%	50V
CC60	1-162-282-31	CERAMIC	100PF	10%	50V
CC401	1-162-282-31	CERAMIC	100PF	10%	50V
CC403	1-162-282-31	CERAMIC	100PF	10%	50V
CC405	1-162-282-31	CERAMIC	100PF	10%	50V
CC451	1-162-282-31	CERAMIC	100PF	0%	50V
CC453	1-162-282-31	CERAMIC	100PF	10%	50V
CC455	1-162-282-31	CERAMIC	100PF	10%	50V

< CONNECTOR >

CNS301	1-569-321-11	SOCKET, CONNECTOR 15P
CNS302	1-568-443-11	SOCKET, CONNECTOR 13P
CNS800	1-691-770-11	PLUG (MICRO CONNECTOR) 8P
CNS801	1-564-506-11	PLUG, CONNECTOR 3P
CNS802	1-770-479-11	PLUG,CONNECTOR PIN(PC BOARD)4P

< DIODE >

D100	8-719-911-19	DIODE 1SS119
D310	8-719-911-19	DIODE 1SS119
D520	8-719-911-19	DIODE 1SS119
D521	8-719-911-19	DIODE 1SS119
D550	8-719-911-19	DIODE 1SS119
D620	8-719-911-19	DIODE 1SS119
D621	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D720	8-719-911-19	DIODE 1SS119
D721	8-719-911-19	DIODE 1SS119
D731	8-719-911-19	DIODE 1SS119
D801	8-719-028-23	DIODE D3SBA20-4101
D810	8-719-024-99	DIODE 11ES2-NTA2B
D811	8-719-024-99	DIODE 11ES2-NTA2B
D812	8-719-986-54	DIODE HZS24-1LTA
D813	8-719-109-85	DIODE RD5.1ES-B2
D820	8-719-024-99	DIODE 11ES2-NTA2B
D821	8-719-024-99	DIODE 11ES2-NTA2B
D822	8-719-024-99	DIODE 11ES2-NTA2B
D823	8-719-024-99	DIODE 11ES2-NTA2B

MAIN

Ref. No.	Part No.	Description	Remark
D850	8-719-911-19	DIODE 1SS119	
		< EARTH TERMINAL >	
* G200	1-537-738-21	TERMINAL, EARTH	
* G201	1-537-738-21	TERMINAL, EARTH	
* G202	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC100	8-759-537-31	IC M62447SP	
IC300	8-759-527-00	IC LV1035M	
IC302	8-759-636-74	IC M5218AP-22	
IC401	8-759-000-48	IC MC14052BCP	
IC402	8-759-000-48	IC MC14052BCP	
IC500	8-759-545-64	IC LC78212	
IC501	8-759-502-33	IC SI18752	
IC502	8-759-636-74	IC M5218AP-22	
IC503	8-759-636-74	IC M5218AP-22	
IC601	8-759-502-33	IC SI18752	
IC651	8-759-502-33	IC SI18752	
IC701	8-759-502-33	IC SI18752	
IC751	8-759-502-33	IC SI18752	
IC801	8-759-605-00	IC M5F78M07L	
IC802	8-759-604-95	IC M5F79M07L	
IC803	8-759-701-59	IC NJM78M09FA	
		< JACK >	
J401	1-779-381-11	JACK, PIN 6P (5.1 CH INPUT/DVD)	
J402	1-770-614-11	JACK, PIN 4P (VIDEO, DVD 2CH)	
J403	1-770-613-11	JACK, PIN 4P (TV)	
J404	1-774-843-11	JACK, PIN 1P (WOOFER)	
		< COIL >	
L301	1-410-509-11	INDUCTOR 10uH	
L507	1-420-872-00	COIL, AIR-CORE	
L607	1-420-872-00	COIL, AIR-CORE	
L657	1-420-872-00	COIL, AIR-CORE	
L707	1-420-872-00	COIL, AIR-CORE	
L757	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q150	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q151	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q152	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q153	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q154	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q155	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q367	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q520	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q550	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q620	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q710	8-729-202-67	FET 2SK246-GR3	
Q711	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q720	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q730	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q731	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q732	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	

Ref. No.	Part No.	Description	Remark
Q760	8-729-202-67	FET 2SK246-GR3	
Q761	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q850	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q851	8-729-900-63	TRANSISTOR DTA124ES	
Q852	8-729-116-81	TRANSISTOR 2SD1616	
Q853	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q854	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R100	1-249-433-11	CARBON 22K 5% 1/4W	
R101	1-249-433-11	CARBON 22K 5% 1/4W	
R102	1-249-433-11	CARBON 22K 5% 1/4W	
R103	1-249-433-11	CARBON 22K 5% 1/4W	
R104	1-247-807-31	CARBON 100 5% 1/4W	
R105	1-247-807-31	CARBON 100 5% 1/4W	
R106	1-247-807-31	CARBON 100 5% 1/4W	
R107	1-247-807-31	CARBON 100 5% 1/4W	
R108	1-249-433-11	CARBON 22K 5% 1/4W	
R109	1-249-433-11	CARBON 22K 5% 1/4W	
R110	1-249-433-11	CARBON 22K 5% 1/4W	
R111	1-249-433-11	CARBON 22K 5% 1/4W	
R112	1-249-433-11	CARBON 22K 5% 1/4W	
R113	1-249-433-11	CARBON 22K 5% 1/4W	
R114	1-247-807-31	CARBON 100 5% 1/4W	
R115	1-247-807-31	CARBON 100 5% 1/4W	
R116	1-247-807-31	CARBON 100 5% 1/4W	
R150	1-249-417-11	CARBON 1K 5% 1/4W	
R151	1-249-417-11	CARBON 1K 5% 1/4W	
R152	1-249-417-11	CARBON 1K 5% 1/4W	
R153	1-249-417-11	CARBON 1K 5% 1/4W	
R154	1-249-417-11	CARBON 1K 5% 1/4W	
R155	1-249-417-11	CARBON 1K 5% 1/4W	
R156	1-249-441-11	CARBON 100K 5% 1/4W	
R157	1-249-441-11	CARBON 100K 5% 1/4W	
R158	1-249-441-11	CARBON 100K 5% 1/4W	
R159	1-249-441-11	CARBON 100K 5% 1/4W	
R160	1-249-441-11	CARBON 100K 5% 1/4W	
R161	1-249-441-11	CARBON 100K 5% 1/4W	
R162	1-249-425-11	CARBON 4.7K 5% 1/4W	
R163	1-249-425-11	CARBON 4.7K 5% 1/4W	
R164	1-249-425-11	CARBON 4.7K 5% 1/4W	
R165	1-249-425-11	CARBON 4.7K 5% 1/4W	
R166	1-249-425-11	CARBON 4.7K 5% 1/4W	
R167	1-249-425-11	CARBON 4.7K 5% 1/4W	
R168	1-249-441-11	CARBON 100K 5% 1/4W	
R169	1-249-441-11	CARBON 100K 5% 1/4W	
R170	1-249-441-11	CARBON 100K 5% 1/4W	
R300	1-247-903-00	CARBON 1M 5% 1/4W	
R303	1-249-439-11	CARBON 68K 5% 1/4W	
R304	1-249-411-11	CARBON 330 5% 1/4W	
R306	1-249-436-11	CARBON 39K 5% 1/4W	
R307	1-247-862-11	CARBON 20K 5% 1/4W	
R309	1-249-421-11	CARBON 2.2K 5% 1/4W	
R340	1-249-420-11	CARBON 1.8K 5% 1/4W	
R342	1-249-441-11	CARBON 100K 5% 1/4W	
R343	1-249-441-11	CARBON 100K 5% 1/4W	
R357	1-249-441-11	CARBON 100K 5% 1/4W	
R358	1-249-441-11	CARBON 100K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R359	1-249-429-11	CARBON	10K	5%	1/4W
R360	1-249-429-11	CARBON	10K	5%	1/4W
R365	1-249-425-11	CARBON	4.7K	5%	1/4W
R374	1-249-429-11	CARBON	10K	5%	1/4W
R375	1-249-429-11	CARBON	10K	5%	1/4W
R381	1-247-807-31	CARBON	100	5%	1/4W
R382	1-247-807-31	CARBON	100	5%	1/4W
R383	1-247-807-31	CARBON	100	5%	1/4W
⚠R397	1-249-404-00	CARBON	82	5%	1/4W F
R399	1-249-426-11	CARBON	5.6K	5%	1/4W
R401	1-249-417-11	CARBON	1K	5%	1/4W
R403	1-249-417-11	CARBON	1K	5%	1/4W
R405	1-249-417-11	CARBON	1K	5%	1/4W
R407	1-249-417-11	CARBON	1K	5%	1/4W
R408	1-249-417-11	CARBON	1K	5%	1/4W
R409	1-249-417-11	CARBON	1K	5%	1/4W
R410	1-249-417-11	CARBON	1K	5%	1/4W
R451	1-249-417-11	CARBON	1K	5%	1/4W
R453	1-249-417-11	CARBON	1K	5%	1/4W
R455	1-249-417-11	CARBON	1K	5%	1/4W
R457	1-249-417-11	CARBON	1K	5%	1/4W
R458	1-249-417-11	CARBON	1K	5%	1/4W
R459	1-249-417-11	CARBON	1K	5%	1/4W
R460	1-249-417-11	CARBON	1K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-438-11	CARBON	56K	5%	1/4W
R504	1-249-438-11	CARBON	56K	5%	1/4W
R505	1-247-828-11	CARBON	750	5%	1/4W
R507	1-249-389-11	CARBON	4.7	5%	1/4W
R508	1-249-437-11	CARBON	47K	5%	1/4W
⚠R509	1-249-393-11	CARBON	10	5%	1/4W F
R512	1-249-441-11	CARBON	100K	5%	1/4W
R513	1-249-429-11	CARBON	10K	5%	1/4W
R514	1-249-429-11	CARBON	10K	5%	1/4W
R515	1-249-419-11	CARBON	1.5K	5%	1/4W
R516	1-249-419-11	CARBON	1.5K	5%	1/4W
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-249-429-11	CARBON	10K	5%	1/4W
R519	1-249-429-11	CARBON	10K	5%	1/4W
R520	1-249-416-11	CARBON	820	5%	1/4W
R521	1-249-426-11	CARBON	5.6K	5%	1/4W
R522	1-249-426-11	CARBON	5.6K	5%	1/4W
R523	1-249-433-11	CARBON	22K	5%	1/4W
⚠R540	1-249-399-11	CARBON	33	5%	1/4W F
R550	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-249-441-11	CARBON	100K	5%	1/4W
R552	1-249-441-11	CARBON	100K	5%	1/4W
R553	1-249-441-11	CARBON	100K	5%	1/4W
R554	1-249-416-11	CARBON	820	5%	1/4W
R555	1-249-425-11	CARBON	4.7K	5%	1/4W
R556	1-249-439-11	CARBON	68K	5%	1/4W
R557	1-247-887-00	CARBON	220K	5%	1/4W
R558	1-249-441-11	CARBON	100K	5%	1/4W
R581	1-249-433-11	CARBON	22K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W
R602	1-249-438-11	CARBON	56K	5%	1/4W
R604	1-249-438-11	CARBON	56K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R605	1-247-828-11	CARBON	750	5%	1/4W
R607	1-249-389-11	CARBON	4.7	5%	1/4W
R608	1-249-437-11	CARBON	47K	5%	1/4W
⚠R609	1-249-393-11	CARBON	10	5%	1/4W F
R621	1-249-426-11	CARBON	5.6K	5%	1/4W
R622	1-249-426-11	CARBON	5.6K	5%	1/4W
R623	1-249-433-11	CARBON	22K	5%	1/4W
⚠R640	1-249-399-11	CARBON	33	5%	1/4W F
R651	1-249-417-11	CARBON	1K	5%	1/4W
R652	1-249-438-11	CARBON	56K	5%	1/4W
R654	1-249-438-11	CARBON	56K	5%	1/4W
R655	1-247-828-11	CARBON	750	5%	1/4W
R657	1-249-389-11	CARBON	4.7	5%	1/4W
R658	1-249-439-11	CARBON	68K	5%	1/4W
⚠R659	1-249-393-11	CARBON	10	5%	1/4W F
R701	1-249-417-11	CARBON	1K	5%	1/4W
R702	1-249-438-11	CARBON	56K	5%	1/4W
R704	1-249-437-11	CARBON	47K	5%	1/4W
R705	1-249-416-11	CARBON	820	5%	1/4W
R707	1-249-389-11	CARBON	4.7	5%	1/4W
R708	1-249-437-11	CARBON	47K	5%	1/4W
⚠R709	1-249-393-11	CARBON	10	5%	1/4W F
R710	1-247-903-00	CARBON	1M	5%	1/4W
R711	1-247-843-11	CARBON	3.3K	5%	1/4W
R712	1-249-413-11	CARBON	470	5%	1/4W
R713	1-247-883-00	CARBON	150K	5%	1/4W
R714	1-249-427-11	CARBON	6.8K	5%	1/4W
R715	1-249-441-11	CARBON	100K	5%	1/4W
R717	1-249-441-11	CARBON	100K	5%	1/4W
R718	1-247-903-00	CARBON	1M	5%	1/4W
R719	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-426-11	CARBON	5.6K	5%	1/4W
R722	1-249-426-11	CARBON	5.6K	5%	1/4W
R723	1-249-433-11	CARBON	22K	5%	1/4W
R730	1-249-427-11	CARBON	6.8K	5%	1/4W
R731	1-249-429-11	CARBON	10K	5%	1/4W
R732	1-249-435-11	CARBON	33K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W
⚠R740	1-249-399-11	CARBON	33	5%	1/4W F
R742	1-249-433-11	CARBON	22K	5%	1/4W
R743	1-249-435-11	CARBON	33K	5%	1/4W
R744	1-249-429-11	CARBON	10K	5%	1/4W
R750	1-249-417-11	CARBON	1K	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W
R752	1-249-438-11	CARBON	56K	5%	1/4W
R754	1-249-437-11	CARBON	47K	5%	1/4W
R755	1-249-416-11	CARBON	820	5%	1/4W
R757	1-249-389-11	CARBON	4.7	5%	1/4W
R758	1-249-439-11	CARBON	68K	5%	1/4W
⚠R759	1-249-393-11	CARBON	10	5%	1/4W F
R760	1-247-903-00	CARBON	1M	5%	1/4W
R761	1-247-843-11	CARBON	3.3K	5%	1/4W
R762	1-249-413-11	CARBON	470	5%	1/4W
R763	1-247-883-00	CARBON	150K	5%	1/4W
R764	1-249-427-11	CARBON	6.8K	5%	1/4W
R765	1-249-441-11	CARBON	100K	5%	1/4W
R769	1-249-433-11	CARBON	22K	5%	1/4W
R792	1-249-433-11	CARBON	22K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN **POWER SW** **PRIMARY** **SECONDARY** **STANDBY**

Ref. No.	Part No.	Description			Remark
R793	1-249-435-11	CARBON	33K	5%	1/4W
R794	1-249-429-11	CARBON	10K	5%	1/4W
⚠R810	1-249-386-11	CARBON	2.7	5%	1/6W F
⚠R811	1-249-386-11	CARBON	2.7	5%	1/6W F
⚠R812	1-249-413-11	CARBON	470	5%	1/4W F
⚠R850	1-249-401-11	CARBON	47	5%	1/4W F
R851	1-249-429-11	CARBON	10K	5%	1/4W
R852	1-249-429-11	CARBON	10K	5%	1/4W
R853	1-249-421-11	CARBON	2.2K	5%	1/4W
R855	1-249-441-11	CARBON	100K	5%	1/4W
R856	1-249-425-11	CARBON	4.7K	5%	1/4W
R860	1-249-434-11	CARBON	27K	5%	1/4W
R861	1-249-434-11	CARBON	27K	5%	1/4W
R862	1-249-434-11	CARBON	27K	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
		< RELAY >			
RY301	1-755-267-11	RELAY			
RY501	1-515-921-11	RELAY (12V)			
RY601	1-515-921-11	RELAY (12V)			
RY701	1-515-921-11	RELAY (12V)			
		< TERMINAL >			
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P) (SPEAKERS, CENTER/REAR)			
TM701	1-537-240-11	TERMINAL BOARD (CHECKER PIN) (SPEAKERS, FRONT)			
		< VIBRATOR >			
X301	1-579-952-11	VIBRATOR, CERAMIC (8MHz)			
**********					
*	1-670-635-11	POWER SW BOARD			
		**********			
		< CONNECTOR >			
* CNP203	1-565-295-11	PLUG, CONNECTOR 4P			
		< SWITCH >			
S200	1-762-875-21	SWITCH, KEYBOARD (**I**/⏻)			
**********					
*	1-670-638-11	PRIMARY BOARD			
		**********			
**********					
*	1-670-639-11	SECONDARY BOARD			
		**********			
		< RESISTOR >			
⚠R801	1-249-381-11	CARBON	1	5%	1/4W F
⚠R802	1-249-381-11	CARBON	1	5%	1/4W F
**********					
*	A-4414-851-A	STANDBY BOARD, COMPLETE			
		**********			
	1-533-293-11	FUSE HOLDER			

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C920	1-161-494-00	CERAMIC	0.022uF		25V
C921	1-161-494-00	CERAMIC	0.022uF		25V
C950	1-126-767-11	ELECT	1000uF	20%	16V
C951	1-164-159-11	CERAMIC	0.1uF		50V
C952	1-126-960-11	ELECT	1uF	20%	50V
C953	1-124-464-11	ELECT	0.22uF	20%	50V
C954	1-126-964-11	ELECT	10uF	20%	50V
C955	1-164-159-11	CERAMIC	0.1uF		50V
C957	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP802	1-770-480-11	SOCKET, CONNECTOR PIN 4P			
CNP902	1-564-321-00	PIN, CONNECTOR 2P			
		< DIODE >			
D901	8-719-911-19	DIODE 1SS119			
D910	8-719-024-99	DIODE 11ES2-NTA2B			
D911	8-719-024-99	DIODE 11ES2-NTA2B			
D912	8-719-024-99	DIODE 11ES2-NTA2B			
D913	8-719-024-99	DIODE 11ES2-NTA2B			
D914	8-719-911-19	DIODE 1SS119			
D915	8-719-911-19	DIODE 1SS119			
		< FUSE >			
⚠F901	1-532-463-51	FUSE, TIME LAG (T1AL/250V)			
		< IC >			
IC950	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q951	8-729-026-68	TRANSISTOR 2SD2525 (TP)			
		< RESISTOR >			
R902	1-249-437-11	CARBON	47K	5%	1/4W
R950	1-249-421-11	CARBON	2.2K	5%	1/4W
R951	1-249-428-11	CARBON	8.2K	5%	1/4W
R952	1-249-422-11	CARBON	2.7K	5%	1/4W
R953	1-249-433-11	CARBON	22K	5%	1/4W
R954	1-249-439-11	CARBON	68K	5%	1/4W
R955	1-249-429-11	CARBON	10K	5%	1/4W
R956	1-247-843-11	CARBON	3.3K	5%	1/4W
R957	1-249-417-11	CARBON	1K	5%	1/4W
R960	1-249-431-11	CARBON	15K	5%	1/4W
R970	1-249-399-11	CARBON	33	5%	1/4W
		< RELAY >			
RY901	1-755-018-11	RELAY			
		< TRANSFORMER >			
⚠T902	1-450-358-11	TRANSFORMER, POWER			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
6	1-777-353-11	WIRE (FLAT TYPE) (15 CORE)	
8	1-769-973-11	WIRE (FLAT TYPE) (13 CORE)	
FAN1	1-763-137-11	FAN, DC	
⚠PC900	1-751-520-11	CORD, POWER (UK)	
⚠PC900	1-777-071-21	CORD, POWER (AEP)	
⚠T900	1-431-979-11	TRANSFORMER, POWER	

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	ACCESSORIES & PACKING MATERIALS	
	**********	
	1-475-042-11	ADAPTOR (EURO SCART ADAPTOR)
	1-475-808-11	REMOTE COMMANDER (RM-U150)
	3-864-251-11	INSTRUCTION MANUAL (ENGLISH, FRENCH, DUTCH, SWEDISH) (AEP)
	3-864-251-21	INSTRUCTION MANUAL (GERMAN, SPANISH, ITALIAN, PORTUGUESE) (AEP)
	3-864-251-31	INSTRUCTION MANUAL (ENGLISH) (UK)
	4-981-643-01	COVER, BATTERY (for RM-U150)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-922-953-11

Sony Corporation
Home A&V Products Company

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